

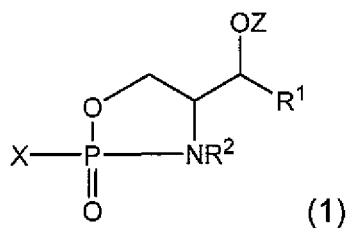
**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of claims:

1. – 56. (Canceled)

57. (Currently Amended) An oxazaphospholane compound of formula (1):



wherein

$R^1$  represents a  $C_1$ - $C_{24}$  aliphatic moiety which may be a saturated or unsaturated, branched or linear chain, optionally comprising an aliphatic ring,

$R^2$  represents a hydrogen atom or hydrophobic group, the hydrophobic group is a  $C_1$ - $C_{24}$  aliphatic moiety which is a saturated or unsaturated, branched or linear aliphatic chain, the aliphatic chain optionally comprising an aliphatic ring, the aliphatic chain or ring optionally substituted with one or more substituents comprising a heteroatom selected from the group consisting of oxygen, halogen, nitrogen and sulfur,

Z represents a protecting group selected from the group consisting of methoxymethyl (MOM), tetrahydropyranyl (THP), diphenylmethyl, triethylsilyl (TES), *t*-butyldimethylsilyl (TBDMS), mesitoate, 9-fluorenylmethyl carbonate (f-moc), *t*-butyl carbamate (t-boc), and  $\text{Si}(\text{R}^5)_3$ ,  $\text{R}^5$  being the same or different within the  $\text{Si}(\text{R}^5)_3$ , the protecting group being a  $\text{C}_1\text{-C}_6$  branched or straight alkyl group, or an aryl group, and

X represents a chemical moiety that is replaced under nucleophilic attack in the presence of a nucleophilic reagent and is selected from the group consisting of a halogen atom, borate, ethylene chlorophosphite, methyl phosphodichloridite, chloro-N,N-diisopropylaminomethoxyphosphite, and [(isopropyl)2N]2POCH2CH2CN,

wherein X is optionally substituted with a group selected from the group consisting of an alcohol, an ether, a polyether and a sugar moiety,

wherein the alcohol contains an aliphatic moiety selected from the group consisting of an aliphatic chain, an amino aliphatic chain, a heteroatom comprising an aliphatic chain, an aliphatic chain comprising a cyclic ring which ring may be saturated or partially saturated and an aryl group, the aliphatic chain may be a branched or straight, saturated or unsaturated chain.

59. (Previously presented) The oxazaphospholane compound of claim 57, wherein R<sup>1</sup> represents a C<sub>8</sub>-C<sub>24</sub> aliphatic moiety.

60. (Previously Presented) The oxazaphospholane compound of claim 57, wherein R<sup>2</sup> represents a hydrogen atom or a saturated or unsaturated C<sub>8</sub>-C<sub>24</sub> aliphatic moiety.

61. (Previously presented) The oxazaphospholane compound of claim 60, wherein R<sup>2</sup> represents a hydrogen atom.

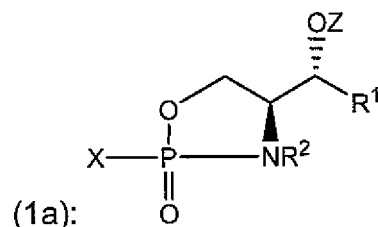
62. (Previously presented) The oxazaphospholane compound of claim 57, wherein X represents a halogen atom.

63. (Previously presented) The oxazaphospholane compound of claim 62, wherein X represents Cl.

64. (Previously Presented) The oxazaphospholane compound of claim 57, wherein Z represents a Si(R<sup>5</sup>)<sub>3</sub> group in which R<sup>5</sup> may be the same or different in the same compound and represents a C<sub>1</sub>-C<sub>6</sub> branched or straight alkyl group or an aryl group.

65. (Previously Presented) The oxazaphospholane compound of claim 57, wherein Z represents Si(Ph)<sub>2</sub>(t-Bu).

66. (Previously Presented) An oxazaphospholane compound of formula

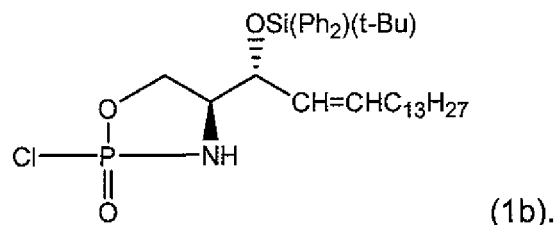


(1a) being the 2S,3R stereoisomer of the compound of claim 57, wherein R<sup>1</sup>, R<sup>2</sup>, X and Z are as defined in the Claim 57.

67. (Previously presented) The oxazaphospholane compound of claim 57, wherein R<sup>1</sup> is (E)-CH=CHC<sub>13</sub>H<sub>27</sub>, R<sup>2</sup> is hydrogen, X is Cl and Z is Si(Ph)<sub>2</sub>(t-Bu).

68. (Previously Presented) The oxazaphospholane compound of claim 57, wherein R<sup>1</sup> is (E)-CH=CHC<sub>13</sub>H<sub>27</sub>, R<sup>2</sup> is hydrogen, and X is substituted with the group -O-CH<sub>2</sub>-CH<sub>2</sub>-N<sup>+</sup>(CH<sub>3</sub>)<sub>3</sub>.

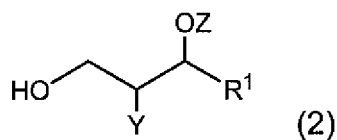
69. (Previously Presented) The oxazaphospholane compound of claim 57, being the (*E*)-geometrical isomer of the compound of formula (1b):



70. (Previously presented) The oxazaphospholane compound of claim 57, being an isolated stable compound.

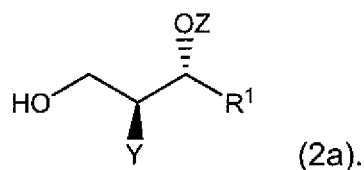
71. (Previously Presented) A process for the manufacture of an oxazaphospholane compound of formula (1) as defined in claim 57, the process comprising

reacting a phosphorylating reagent selected from the group consisting of  $\text{POW}_3$ , where W represents a halogen atom, an ethylene chlorophosphite, a methyl phosphodichloridite, a chloro-N,N-diisopropylaminomethoxophosphite and  $[(\text{isopropyl})_2\text{N}]_2\text{POCH}_2\text{CH}_2\text{CN}$  with a 3-O-protected sphingoid compound of formula (2):



wherein  $\text{R}^1$ , Z and X are as defined in claim 57, and Y is an amine or an amino group.

72. (Previously Presented) The process of claim 71, further comprising reacting the phosphorylating reagent with a 2S, 3R stereoisomer of formula (2a):

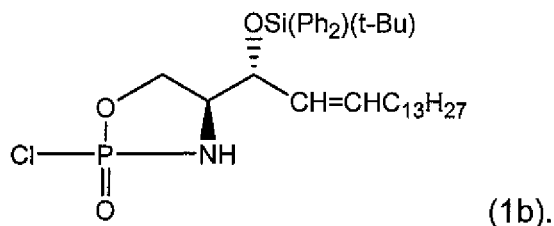


73. (Previously Presented) The process of claim 71, wherein the phosphorylating reagent is reacted with the protected sphingoid compound in which Y represents NH<sub>2</sub>.

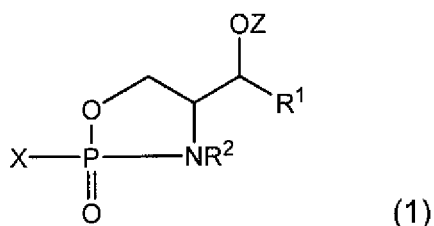
74. (Cancelled)

75. (Previously Presented) The process of claim 71, wherein the phosphorylating reagent is POCl<sub>3</sub>.

76. (Previously Presented) The process of claim 71, for the synthesis of the (*E*)-geometrical isomer of the compound of formula (1b):



77. (Currently Amended) An oxazaphospholane compound of formula (1):



wherein

$R^1$  represents a  $C_1$ - $C_{24}$  aliphatic moiety which may be a saturated or unsaturated, branched or linear chain, optionally comprising an aliphatic ring,

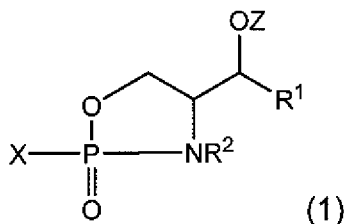
$R^2$  represents a hydrogen atom or hydrophobic group, the hydrophobic group is a  $C_1$ - $C_{24}$  aliphatic moiety which is a saturated or unsaturated, branched or linear aliphatic chain, the aliphatic chain optionally comprising an aliphatic ring, the aliphatic chain or ring optionally substituted with one or more substituents comprising a heteroatom selected from the group consisting of oxygen, halogen, nitrogen and sulfur,

Z represents a protecting group selected from the group consisting of methoxymethyl (MOM), tetrahydropyranyl (THP), diphenylmethyl, triethylsilyl (TES), *t*-butyldimethylsilyl (TBDMS), mesitoate, 9-fluorenylmethyl carbonate (f-moc), *t*-butyl carbamate (t-boc), and  $\text{Si}(\underline{R^5})_3$   $\text{Si}(\underline{R^5})_3$ ,  $[[R^5]]$   $\underline{R^5}$  being the same or different within the  $\text{Si}(\underline{R^5})_3$   $\text{Si}(\underline{R^5})_3$  and a  $C_1$ - $C_6$  branched or straight alkyl group, or an aryl group, and

X represents a chemical moiety that is replaced under nucleophilic attack in the presence of a nucleophilic reagent, obtainable by the process of claim 71.

78-104. (Cancelled)

105. (Currently Amended) An oxazaphospholane compound of formula (1):



wherein

$R^1$  represents a  $C_1$ - $C_{24}$  aliphatic moiety which may be a saturated or unsaturated, branched or linear chain, optionally containing an aliphatic ring;

$R^2$  represents a hydrogen atom or hydrophobic group, the hydrophobic group is a  $C_1$ - $C_{24}$  aliphatic moiety selected from a saturated or unsaturated, branched or linear aliphatic chain, the aliphatic chain optionally containing an aliphatic ring, the aliphatic chain or ring optionally substituted with one or more substituents containing a heteroatom selected from the group consisting of oxygen, halogen, nitrogen and sulfur;

Z represents a protecting group selected from the group consisting of methoxymethyl (MOM), tetrahydropyranyl (THP), diphenylmethyl, triethylsilyl (TES), *t*-butyldimethylsilyl (TBDMS), mesitoate, 9-fluorenylmethyl carbonate (f-moc), *t*-butyl carbamate (t-boc), and  $\text{Si}(\text{R}^5)_3$ , wherein  $\text{R}^5$  may be the same or different in the same moiety and is selected from a  $C_1$ - $C_6$  branched or straight alkyl group or an optionally substituted aryl group; and

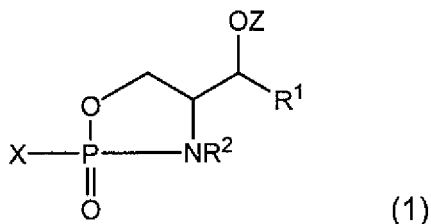
X represents a leaving group selected from the group consisting of a halogen atom, borate, ethylene chlorophosphite, methyl phosphodichloridite, chloro-N,N-diisopropylaminomethoxophosphite, and  $[(\text{isopropyl})_2\text{N}]_2\text{POCH}_2\text{CH}_2\text{CN}$ , wherein X is



optionally substituted with a group selected from the group consisting of an alcohol, an ether, a polyether, and a sugar moiety, wherein the alcohol contains an aliphatic moiety selected from the group consisting of an aliphatic chain, an amino aliphatic chain, a heteroatom comprising an aliphatic chain, an aliphatic chain comprising a cyclic ring which ring may be saturated or partially saturated, and an aryl group, the aliphatic chain may be a branched or straight, saturated or unsaturated chain.

106. (Cancelled)

107. (Previously Presented) An oxazaphospholane compound of formula (1):



obtainable by the process of claim 71, wherein

$R^1$  represents a  $C_1$ - $C_{24}$  aliphatic moiety which may be a saturated or unsaturated, branched or linear chain, optionally containing an aliphatic ring;

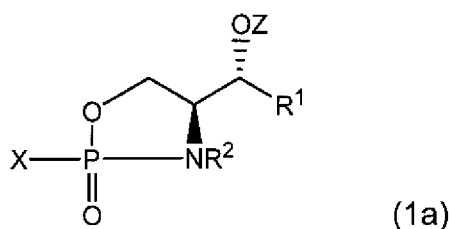
$R^2$  represents a hydrogen atom or hydrophobic group, the hydrophobic group is a  $C_1$ - $C_{24}$  aliphatic moiety selected from a saturated or unsaturated, branched or linear aliphatic chain, the aliphatic chain optionally containing an aliphatic ring, the aliphatic chain or ring optionally substituted with one or more substituents containing a heteroatom selected from the group consisting of oxygen, halogen, nitrogen and sulfur;

Z represents a protecting group selected from the group consisting of methoxymethyl (MOM), tetrahydropyranyl (THP), diphenylmethyl, triethylsilyl (TES), *t*-butyldimethylsilyl (TBDMS), mesitoate, 9-fluorenylmethyl carbonate (f-moc), *t*-butyl carbamate (t-boc), and  $\text{Si}(\text{R}^5)_3$ , wherein  $\text{R}^5$  may be the same or different in the same moiety and is selected from a  $\text{C}_1$ - $\text{C}_6$  branched or straight alkyl group or an optionally substituted aryl group; and

X represents a leaving group selected from the group consisting of a halogen atom, borate, ethylene chlorophosphite, methyl phosphodichloridite, chloro-N,N-diisopropylaminomethoxophosphite, and  $[(\text{isopropyl})_2\text{N}]_2\text{POCH}_2\text{CH}_2\text{CN}$ , wherein X is optionally substituted with a group selected from the group consisting of an alcohol, an ether, a polyether, and a sugar moiety, wherein the alcohol contains an aliphatic moiety selected from the group consisting of an aliphatic chain, an amino aliphatic chain, a heteroatom comprising an aliphatic chain, an aliphatic chain comprising a cyclic ring which ring may be saturated or partially saturated, and an aryl group, the aliphatic chain may be a branched or straight, saturated or unsaturated chain.

108. (Previously Presented) The oxazaphospholane compound according to claim 107, wherein  $R^1$  represents a  $C_8$ - $C_{24}$  aliphatic moiety; or Z represents a  $Si(R^5)_3$  group in which  $R^5$  may be the same or different in the same compound and represents a  $C_1$ - $C_6$  branched or straight alkyl group or an aryl group.

109. (Previously Presented) An oxazaphospholane compound of formula (1a):



obtainable by the process of claim 71, wherein

$R^1$  represents a  $C_1$ - $C_{24}$  aliphatic moiety which may be a saturated or unsaturated, branched or linear chain, optionally containing an aliphatic ring;

$R^2$  represents a hydrogen atom or hydrophobic group, the hydrophobic group is a  $C_1$ - $C_{24}$  aliphatic moiety selected from a saturated or unsaturated, branched or linear aliphatic chain, the aliphatic chain optionally containing an aliphatic ring, the aliphatic chain or ring optionally substituted with one or more substituents containing a heteroatom selected from the group consisting of oxygen, halogen, nitrogen and sulfur;

Z represents a protecting group selected from the group consisting of methoxymethyl (MOM), tetrahydropyranyl (THP), diphenylmethyl, triethylsilyl (TES), *t*-butyldimethylsilyl (TBDMS), mesitoate, 9-fluorenylmethyl carbonate (f-moc), *t*-butyl carbamate (t-boc), and  $Si(R^5)_3$ , wherein  $R^5$  may be the same or different in the same

moiety and is selected from a C<sub>1</sub>-C<sub>6</sub> branched or straight alkyl group or an optionally substituted aryl group; and

X represents a leaving group selected from the group consisting of a halogen atom, borate, ethylene chlorophosphite, methyl phosphodichloridite, chloro-N,N-diisopropylaminomethyloxophosphite, and [(isopropyl)<sub>2</sub>N]<sub>2</sub>POCH<sub>2</sub>CH<sub>2</sub>CN, wherein X is optionally substituted with a group selected from the group consisting of an alcohol, an ether, a polyether, and a sugar moiety, wherein the alcohol contains an aliphatic moiety selected from the group consisting of an aliphatic chain, an amino aliphatic chain, a heteroatom comprising an aliphatic chain, an aliphatic chain comprising a cyclic ring which ring may be saturated or partially saturated, and an aryl group, the aliphatic chain may be a branched or straight, saturated or unsaturated chain.

110. (Previously presented) The oxazaphospholane compound according to claim 109,

wherein

R<sup>1</sup> represents a C<sub>8</sub>-C<sub>24</sub> aliphatic moiety, or

Z represents a Si(R<sup>5</sup>)<sub>3</sub> group in which R<sup>5</sup> may be the same or different in the same compound and represents a C<sub>1</sub>-C<sub>6</sub> branched or straight alkyl group or an aryl group.

111. (Cancelled)